


Harris & Associates
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CONSULTANT INFORMATION

KEYED NOTES

GENERAL NOTES



Utah National Guard
RECRUITER STORAGE BUILDING
UTAH NATIONAL GUARD
DRAPER, UTAH

SHEET TITLE

FLOOR PLN

REVISIONS	DATE	BY	DESCRIPTION
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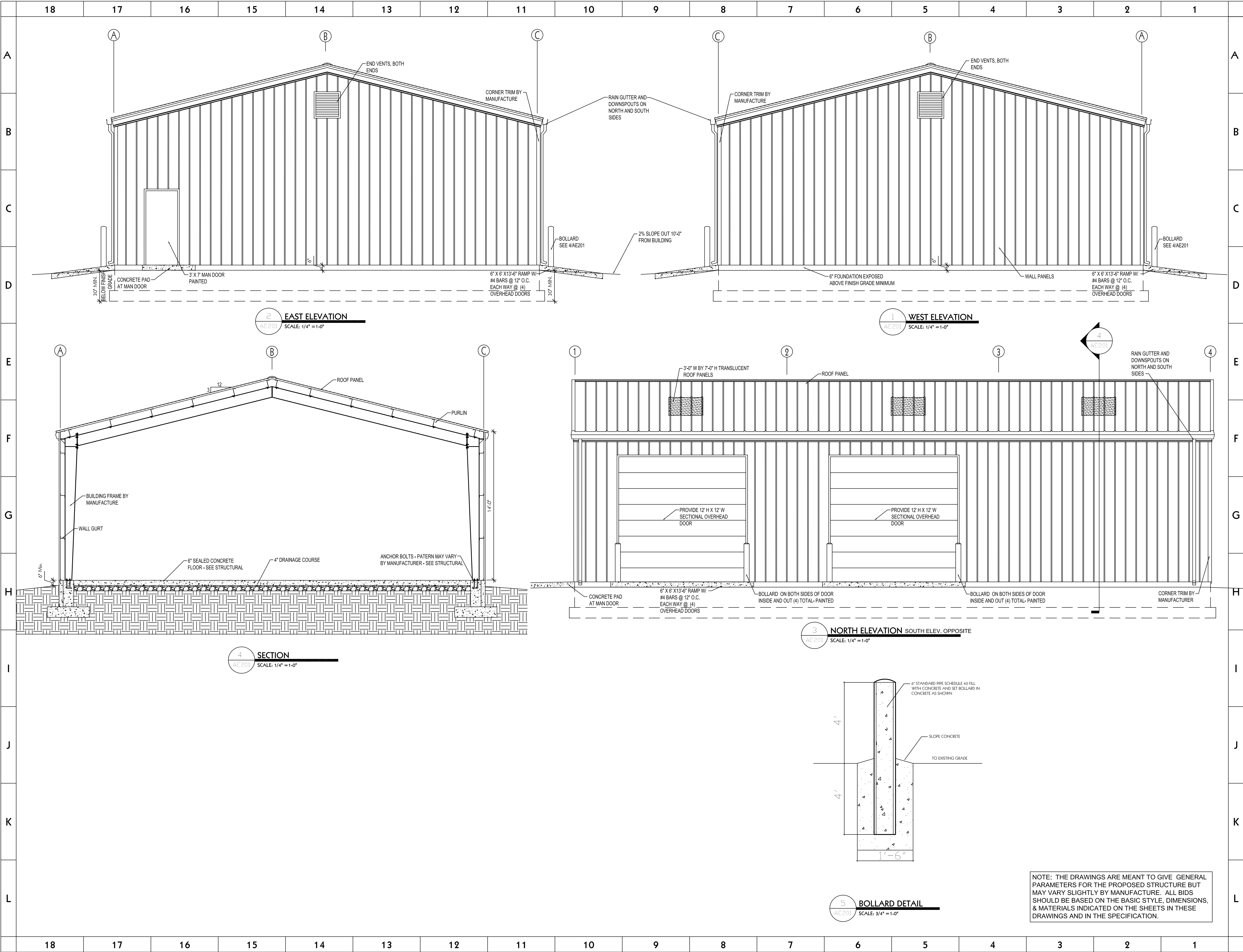
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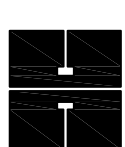
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AUG 29, 2008

Utah National Guard - RECRUITER STORAGE BUILDING - DRAPER, UTAH






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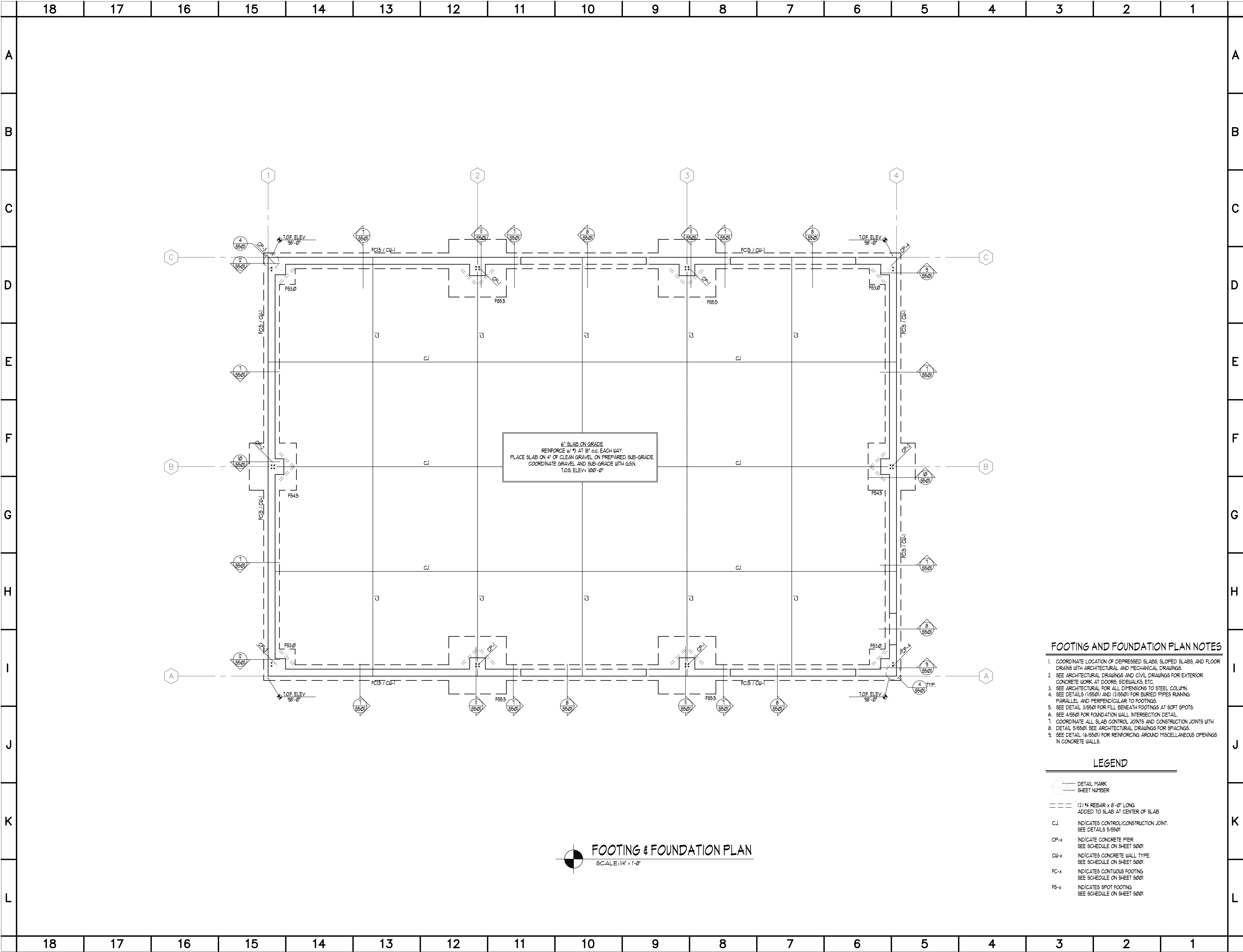
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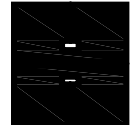
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CONSULTANT INFORMATION

FARLEY ENGINEERING LLC
STRUCTURAL ENGINEERING CONSULTANTS
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farleyeng@qwest.net, Ph: (801) 274-3151

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Utah National Guard
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UTAH NATIONAL GUARD
DRAPER, UTAH

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FOUNDATION PLAN

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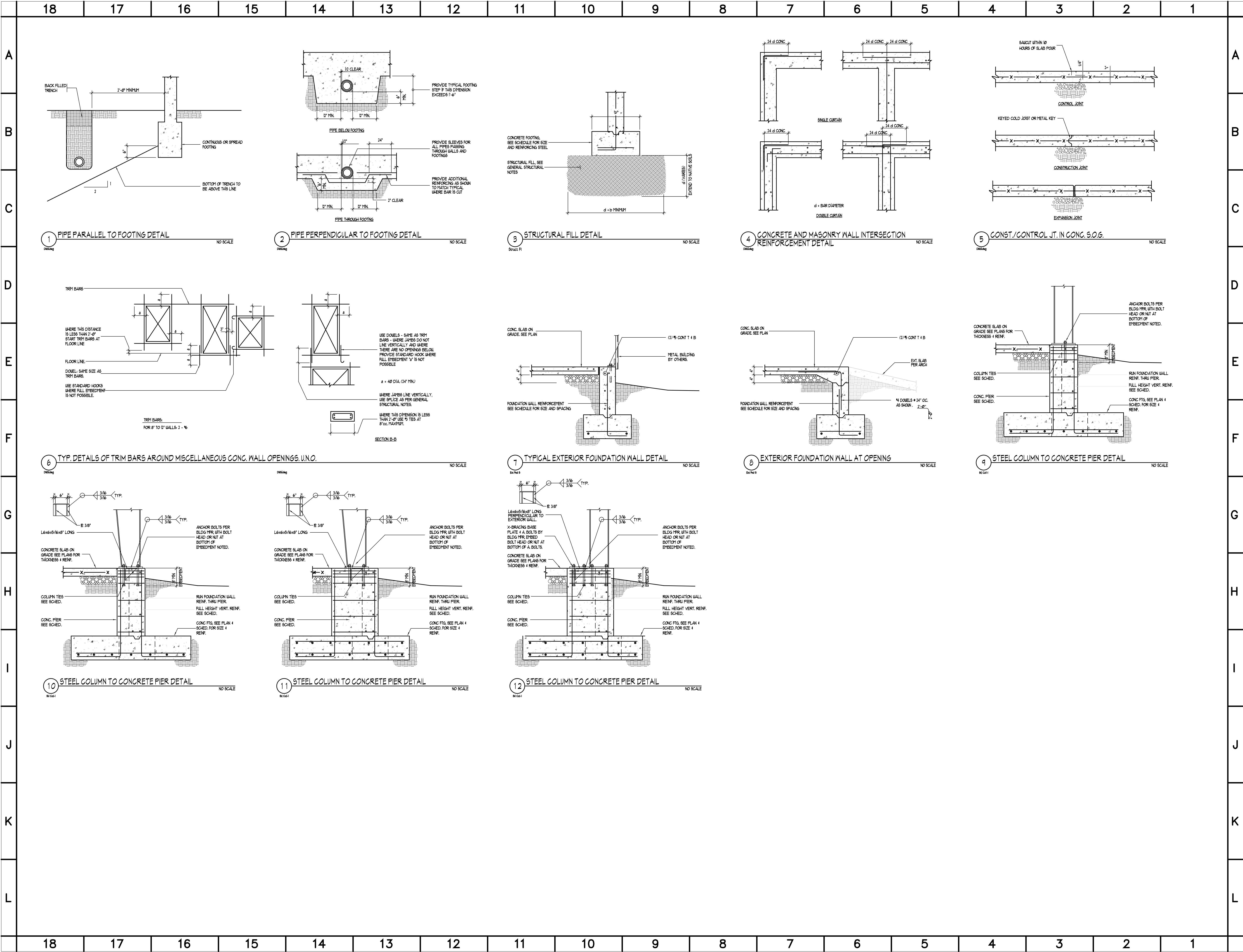
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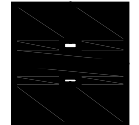
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UTAH NATIONAL GUARD

DRAPER, UTAH

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DETAILS

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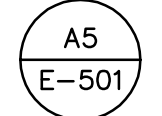
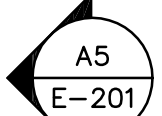
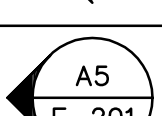
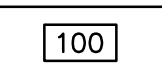
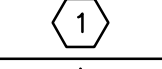
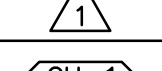


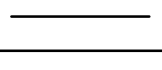



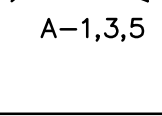
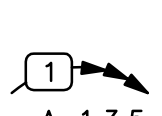


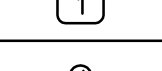


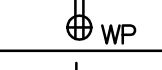
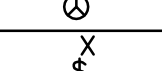
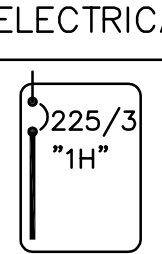
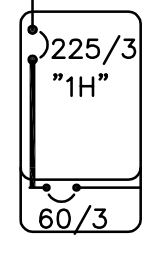
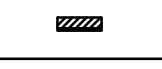
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SYMBOL LEGEND	
SYMBOL	DESCRIPTION
REFERENCE AND LINE SYMBOLS	
	DETAIL INDICATOR: A5 INDICATES DETAIL NUMBER, E-501 INDICATES DRAWING SHEET WHERE DETAIL IS SHOWN.
	ELEVATION OR SECTION INDICATOR, EXTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ELEVATION OR SECTION INDICATOR, INTERIOR: A5 INDICATES ELEVATION OR SECTION NUMBER, E-201 INDICATES DRAWING SHEET WHERE ELEVATION OR SECTION IS SHOWN.
	ROOM OR SPACE NUMBER.
	KEYNOTE INDICATOR.
	REVISION INDICATOR.
	EQUIPMENT INDICATOR.
	BREAK, STRAIGHT: TO BREAK PARTS OF DRAWING.
	BREAK, ROUND.
	NEW LINE: MEDIUM LINE.
	HIDDEN FEATURES LINE: HIDDEN, THIN LINE.
WIRING METHODS	
	WIRING.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN SECTION 16120.
	BRANCH CIRCUIT HOME RUN TO PANELBOARD: NUMBER OF ARROWS INDICATES NUMBER OF CIRCUITS. LETTER AND NUMBER NOTATIONS IDENTIFY PANEL AND CIRCUIT NUMBERS. NUMBER IN BOX REFERS TO THE CONDUCTOR AND CONDUIT SCHEDULE. FOR BRANCH WIRING USE #12 CONDUCTORS, EXCEPT #10 CONDUCTORS SHALL BE INSTALLED IF DISTANCES EXCEED THOSE SPECIFIED IN SECTION 16120.
	CONDUIT STUB. DIMENSION RECORD DRAWINGS AND MARK.
	CONDUCTOR & CONDUIT ("CC") SCHEDULE INDICATOR. REFER TO ONE-LINE DIAGRAM.
	JUNCTION BOX.
WIRING DEVICES	
	RECEPTACLE, DUPLEX: NEMA 5-20R.
	RECEPTACLE, DUPLEX WITH GROUND FAULT CIRCUIT INTERRUPTER, WEATHERPROOF: NEMA 5-20R.
	RECEPTACLE, SPECIAL PURPOSE. PROVIDE RECEPTACLE TO MATCH EQUIPMENT PLUG.
	SWITCH, SINGLE POLE ("X" INDICATES FIXTURES CONTROLLED).
ELECTRICAL POWER AND DISTRIBUTION	
	PANELBOARD WITH MAIN CIRCUIT BREAKER. SIZE AND PHASE AS SHOWN (ONE-LINE DIAGRAM).
	PANELBOARD WITH MAIN AND SUB FEED CIRCUIT BREAKER (ONE-LINE DIAGRAM).
	PANELBOARD CABINET, SURFACE MOUNTED, 1 SECTION.

ABBREVIATIONS			
NOTE: ALL ABBREVIATIONS MAY NOT BE USED.			
1P	SINGLE POLE	KV	KILOVOLT
1PH	SINGLE-PHASE	KVA	KILOVOLT AMPERE
1WAY	ONE-WAY	KVAR	KILOVOLT AMPERE REACTIVE
2/C	TWO-CONDUCTOR	KW	KILOWATT
2WAY	TWO-WAY	kWh	KILOWATT HOUR
3/C	THREE-CONDUCTOR	LED	LIGHT EMITTING DIODE
3PH	THREE-PHASE	LFMC	LIQUID TIGHT FLEXIBLE METAL CONDUIT
3WAY	THREE-WAY	LFNC	LIQUID TIGHT FLEXIBLE NONMETALLIC CONDUIT
4OUT	QUADRUPLE RECEPTACLE OUTLET	LPS	LOW PRESSURE SODIUM
4PDT	FOUR-POLE DOUBLE THROW	LRA	LOCKED ROTOR AMPS
4PST	FOUR-POLE SINGLE THROW	LTG	LIGHTING
4W	FOUR-WIRE	LV	LOW VOLTAGE
4WAY	FOUR-WAY	MATV	MASTER ANTENNA TELEVISION SYSTEM
A	ABOVE COUNTER	MAX	MAXIMUM
AC	ARMORED CABLE	MC	METAL CLAD
ADA	AMERICANS WITH DISABILITIES ACT	MCA	MINIMUM CIRCUIT AMPS
ADJ	ADJACENT	MCB	MAIN CIRCUIT BREAKER
AFJ	ABOVE FINISHED FLOOR	MCC	MOTOR CONTROL CENTER
AFG	ABOVE FINISHED GRADE	MCP	MOTOR CIRCUIT PROTECTION
AIC	AMPERE INTERRUPTING CAPACITY	MDP	MAIN DISTRIBUTION PANEL
ALUM	ALUMINUM	MG	MOTOR GENERATOR
AMP	AMPERE	MH	MANHOLE
ANN	ANNUNCIATOR	MIN	MINIMUM
AP	ACCESS POINT (WIRELESS DATA)	MLO	MAIN LUGS ONLY
AR	AS REQUIRED	MOCp	MAXIMUM OVERCURRENT PROTECTION
ASC	AMPS SHORT CIRCUIT	NA	NOT APPLICABLE
ATS	AUTOMATIC TRANSFER SWITCH	NC	NORMALLY CLOSED
AV	AUDIO VISUAL	NEC	NATIONAL ELECTRICAL CODE
AWG	AMERICAN WIRE GAGE	NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
BB XFMR	BUCK-BOOST TRANSFORMER	NFC	NATIONAL FIRE CODE
C	CEILING MOUNTED	NFFA	NATIONAL FIRE PROTECTION ASSOCIATION
CATV	COMMUNITY ANTENNA TELEVISION	NIC	NOT IN CONTRACT
CB	CIRCUIT BREAKER	NL	NIGHT LIGHT
CCBA	CUSTOM COLOR AS SELECTED BY ARCHITECT	NO	NORMALLY OPEN
CCTV	CLOSED CIRCUIT TELEVISION	NTS	NOT TO SCALE
CFBA	CUSTOM FINISH AS SELECTED BY ARCHITECT	OCP	OVER CURRENT PROTECTION
CF/Ci	CONTRACTOR FURNISHED/CONTRACTOR INSTALLED	OF/Ci	OWNER FURNISHED/CONTRACTOR INSTALLED
CF/Oi	CONTRACTOR FURNISHED/OWNER INSTALLED	OF/Oi	OWNER FURNISHED/OWNER INSTALLED
CKT	CIRCUIT	OFF	OBTAIN FROM PLANS
CM	CONSTRUCTION MANAGER	OH DR	OVERHEAD (COILING) DOOR
CND	CONDUIT	OL	OVERLOAD
CO	CONVENIENCE OUTLET	PB	PUSHBUTTON
COR	CONTRACTING OFFICER'S REPRESENTATIVE	PF	POWER FACTOR
CP	CONTROL PANEL	PH	PHASE
CT	CURRENT TRANSFORMER	PNL	PANEL
CTV	CABLE TELEVISION	PT	POTENTIAL TRANSFORMER
CU	COPPER	PTZ	PAN/TILT/ZOOM
dBA	UNIT OF SOUND LEVEL	QTY	QUANTITY
DPDT	DOUBLE POLE DOUBLE THROW	R	REMOVE
DS	DISCONNECT SWITCH	RCP	REFLECTED CEILING PLAN
EA	EACH	RMC	RIGID METAL CONDUIT
EM	EMERGENCY	RNC	RIGID NONMETALLIC CONDUIT
EMT	ELECTRICAL METALLIC TUBING	RPM	REVOLUTIONS PER MINUTE
ENT	ELECTRICAL NONMETALLIC TUBING	RR	REMOVE AND RELOCATE
EPO	EMERGENCY POWER OFF	SCA	SHORT CIRCUIT AMPS
EQUIP	EQUIPMENT	SCBA	STANDARD COLOR AS SELECTED BY ARCHITECT
EX	EXISTING	SF	SQUARE FOOT (FEET)
F	FURNITURE MOUNTED	SFBA	STANDARD FINISH AS SELECTED BY ARCHITECT
FA	FIRE ALARM	SPDT	SINGLE POLE, DOUBLE THROW
FCP	FIRE ALARM CONTROL PANEL	SPEC	SPECIFICATION
FLA	FULL LOAD AMPS	SPST	SINGLE POLE, SINGLE THROW
FMC	FLEXIBLE METALCONDUIT	S/S	START/STOP
FOB	FREIGHT ON BOARD	ST	SINGLE THROW
FVNR	FULL VOLTAGE NON-REVERSING	SWBD	SWITCHBOARD
FVR	FULL VOLTAGE REVERSING	SWGR	SWITCHGEAR
G	GROUND	TL	TWIST LOCK
GEN	GENERATOR	TP	TELEPHONE POLE
GFCI	GROUND FAULT CIRCUIT INTERRUPTER	TP	TWISTED PAIR
GFP	GROUND FAULT PROTECTION	TTB	TELEPHONE TERMINAL BOARD
HD	HEAVY DUTY	TV	TELEVISION
HID	HIGH INTENSITY DISCHARGE	TVSS	TRANSIENT VOLTAGE SURGE SUPPRESSER
HOA	HAND-OFF-AUTOMATIC	TYP	TYPICAL
HP	HORSE POWER	UF	UNDERFLOOR
HPF	HIGH POWER FACTOR	UGND	UNDERGROUND
HPS	HIGH PRESSURE SODIUM	UPS	UNINTERRUPTIBLE POWER SUPPLY
HV	HIGH VOLTAGE	V	VOLTS
HZ	HERTZ	VA	VOLT AMPERE
IG	ISOLATED GROUND	VFC/VFD	VARIABLE FREQUENCY MOTOR CONTROLLER
IMC	INTERMEDIATE METAL CONDUIT	W/	WITH
IN/IS	INSULATED/ISOLATED	W/O	WITHOUT
I/O	INPUT/OUTPUT	WP	WEATHERPROOF
IR	INFRARED	XFMR	TRANSFORMER
J-BOX	JUNCTION BOX		

GENERAL ELECTRICAL NOTES

- CLARIFICATION METHODS: AT THE TIME OF BIDDING, BIDDERS SHALL FAMILIARIZE THEMSELVES WITH THE DRAWINGS AND SPECIFICATIONS. ANY QUESTIONS, MISUNDERSTANDINGS, CONFLICTS, DELETIONS, DISCREPANCIES BETWEEN THE EQUIPMENT SUPPLIED AND THE INTENT OR FUNCTION OF THE EQUIPMENT, ETC, SHALL BE SUBMITTED TO THE ARCHITECT/ENGINEER IN WRITING FOR CLARIFICATION PRIOR TO ISSUANCE OF THE FINAL ADDENDUM AND BIDDING OF THE PROJECT, WHERE DISCREPANCIES OR MULTIPLE INTERPRETATIONS OCCUR, THE MOST STRINGENT (WHICH IS GENERALLY RECOGNIZED AS THE MOST COSTLY) THAT MEETS THE INTENT OF THE DOCUMENTS SHALL BE ENFORCED.
- OWNER FURNISHED ITEMS: THE OWNER WILL FURNISH MATERIAL AND EQUIPMENT AS INDICATED IN THE CONTRACT DOCUMENTS TO BE INCORPORATED INTO THE WORK. THESE ITEMS ARE ASSIGNED TO THE INSTALLER AND COSTS FOR RECEIVING, HANDLING, STORAGE, IF REQUIRED, AND INSTALLATION ARE INCLUDED IN THE CONTRACT SUM.
 - THE INSTALLER'S RESPONSIBILITIES ARE THE SAME AS IF THE INSTALLER FURNISHED THE MATERIALS OR EQUIPMENT.
 - THE OWNER WILL ARRANGE AND PAY FOR DELIVERY OF OWNER FURNISHED ITEMS FREIGHT ON BOARD JOB SITE AND THE INSTALLER WILL INSPECT DELIVERIES FOR DAMAGE. IF OWNER FURNISHED ITEMS ARE DAMAGED, DEFECTIVE OR MISSING, DOCUMENT DAMAGED ITEMS WITH THE TRANSPORT COMPANY AND THE OWNER WILL ARRANGE FOR REPLACEMENT. THE OWNER WILL ALSO ARRANGE FOR MANUFACTURER'S FIELD SERVICES, AND THE DELIVERY OF MANUFACTURER'S WARRANTIES AND BONDS TO THE INSTALLER.
 - THE INSTALLER IS RESPONSIBLE FOR DESIGNATING THE DELIVERY DATES OF OWNER FURNISHED ITEMS AND FOR RECEIVING, UNLOADING AND HANDLING OWNER FURNISHED ITEMS AT THE SITE. THE INSTALLER IS RESPONSIBLE FOR PROTECTING OWNER FURNISHED ITEMS FROM DAMAGE, INCLUDING DAMAGE FROM EXPOSURE TO THE ELEMENTS, AND TO REPAIR OR REPLACE ITEMS DAMAGED AS A RESULT OF HIS OPERATIONS.
- EXPOSED STRUCTURE AREAS (EXCLUDING MECHANICAL, ELECTRICAL, AND COMMUNICATION SPACES): INSTALL RACEWAYS BETWEEN DECK AND STRUCTURE WHEREVER POSSIBLE IN EXPOSED STRUCTURE CEILING AREAS. ROUTE RACEWAYS IN CONCEALED AREAS WHEREVER POSSIBLE. REFER ALL CONDITIONS WHERE RACEWAYS MUST BE INSTALLED WHICH CANNOT COMPLY WITH THESE REQUIREMENTS TO THE ARCHITECT.
- SUBMITTALS: PROVIDE SUBMITTALS IN THREE RING BINDERS WITH JOB NAME, SUBCONTRACTOR, AND VOLUME ON THE BINDING. PREPARE TABS FOR EACH SPECIFICATION SECTION REQUIRING SUBMITTALS. PREPARE INDEX OF EQUIPMENT SUBMITTED IN EACH TAB.
- REFLECTED CEILING PLANS: COORDINATE THE LOCATION OF LIGHT FIXTURES WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. REFER ALL DISCREPANCIES TO THE ARCHITECT AND ENGINEER.

DEFINITIONS

- NOTE: ALL DEFINITIONS MAY NOT BE USED.
- INDICATED: THE TERM "INDICATED" REFERS TO GRAPHIC REPRESENTATIONS, NOTES, OR SCHEDULES ON THE DRAWINGS, OTHER PARAGRAPHS OR SCHEDULES IN THE SPECIFICATIONS, AND SIMILAR REQUIREMENTS IN THE CONTRACT DOCUMENTS. WHERE TERMS SUCH AS "SHOWN", "NOTED", "SCHEDULED", AND "SPECIFIED" ARE USED, IT IS TO HELP THE READER LOCATE THE REFERENCE, NO LIMITATION ON LOCATION IS INTENDED.
- DIRECTED: TERMS SUCH AS "DIRECTED", "REQUESTED", "AUTHORIZED", "SELECTED", "APPROVED", "REQUIRED", AND "PERMITTED" MEAN "DIRECTED BY THE ENGINEER", "REQUESTED BY THE ENGINEER", AND SIMILAR PHRASES.
- APPROVED: THE TERM "APPROVED", WHERE USED IN CONJUNCTION WITH THE ENGINEER'S ACTION ON THE CONTRACTOR'S SUBMITTALS, APPLICATIONS, AND REQUESTS, IS LIMITED TO THE ENGINEER'S DUTIES AND RESPONSIBILITIES AS STATED IN GENERAL AND SUPPLEMENTARY CONDITIONS.
- FURNISH: THE TERM "FURNISH" IS USED TO MEAN "SUPPLY AND DELIVER TO THE PROJECT SITE, READY FOR UNLOADING, UNPACKING, ASSEMBLY, INSTALLATION, AND SIMILAR OPERATIONS."
- INSTALL: THE TERM "INSTALL" IS USED TO DESCRIBE OPERATIONS AT PROJECT SITE INCLUDING THE ACTUAL "UNLOADING, UNPACKING, ASSEMBLY, ERECTION, PLACING, ANCHORING, APPLYING, WORKING TO DIMENSION, FINISHING, CURING, PROTECTING, CLEANING, AND SIMILAR OPERATIONS."
- PROVIDE: THE TERM "PROVIDE" MEANS "TO FURNISH AND INSTALL, COMPLETE AND READY FOR THE INTENDED USE."
- INSTALLER: AN "INSTALLER" IS THE CONTRACTOR OR AN ENTITY ENGAGED BY THE CONTRACTOR, EITHER AS AN EMPLOYEE, SUBCONTRACTOR, OR SUB-SUBCONTRACTOR, FOR PERFORMANCE OF A PARTICULAR CONSTRUCTION ACTIVITY, INCLUDING INSTALLATION, ERECTION, APPLICATION, AND SIMILAR OPERATIONS. INSTALLERS ARE REQUIRED TO BE EXPERIENCED IN THE OPERATIONS THEY ARE ENGAGED TO PERFORM.
- TECHNOLOGY SYSTEMS: THE TERM "TECHNOLOGY SYSTEMS" IS USED TO DESCRIBE ALL LOW VOLTAGE SYSTEMS GENERALLY REFERRED TO AS "SPECIAL SYSTEMS". THESE SYSTEMS INCLUDE BUT ARE NOT NECESSARILY LIMITED TO ALL SYSTEMS WHICH UTILIZE VOLTAGES OF LESS THAN 71 VOLTS SUCH AS SOUND SYSTEMS, VIDEO SYSTEMS, TV SYSTEMS, SECURITY SYSTEMS, VOICE AND DATA CABLING SYSTEMS, ETC...

ELECTRICAL SHEET INDEX

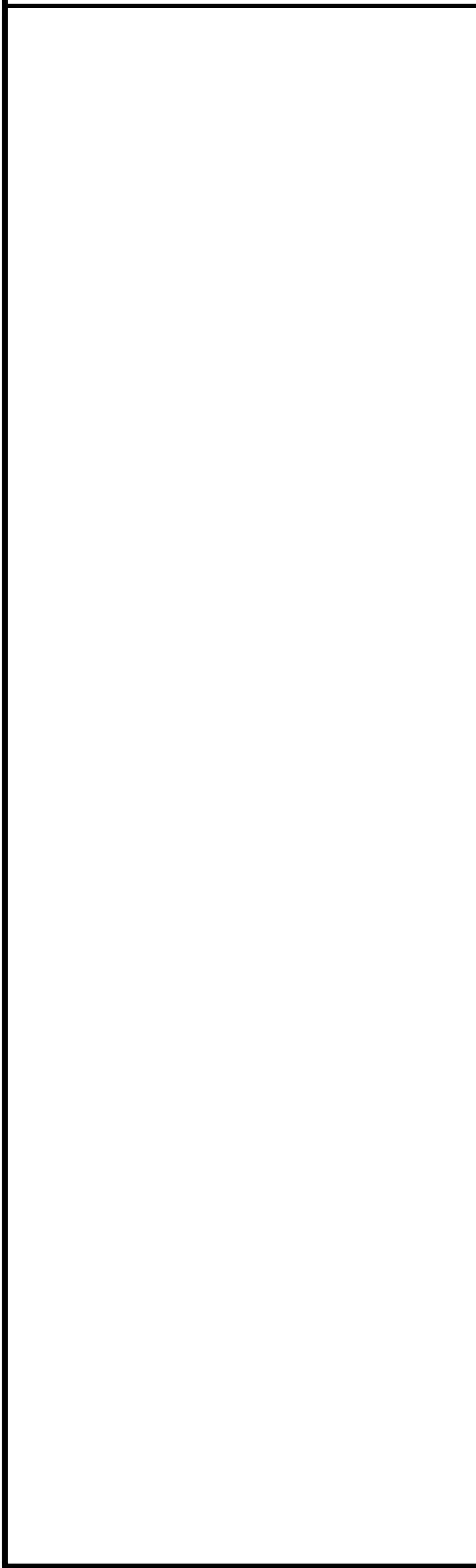
SHEET NO	SHEET TITLE
EE001	SYMBOL LEGEND & SHEET INDEX
EE601	SCHEDULES & ONE-LINE
ES101	ELECTRICAL SITE PLAN
EP101	POWER PLAN
EL101	LIGHTING PLAN



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Symbol Leg & Sheet Index			
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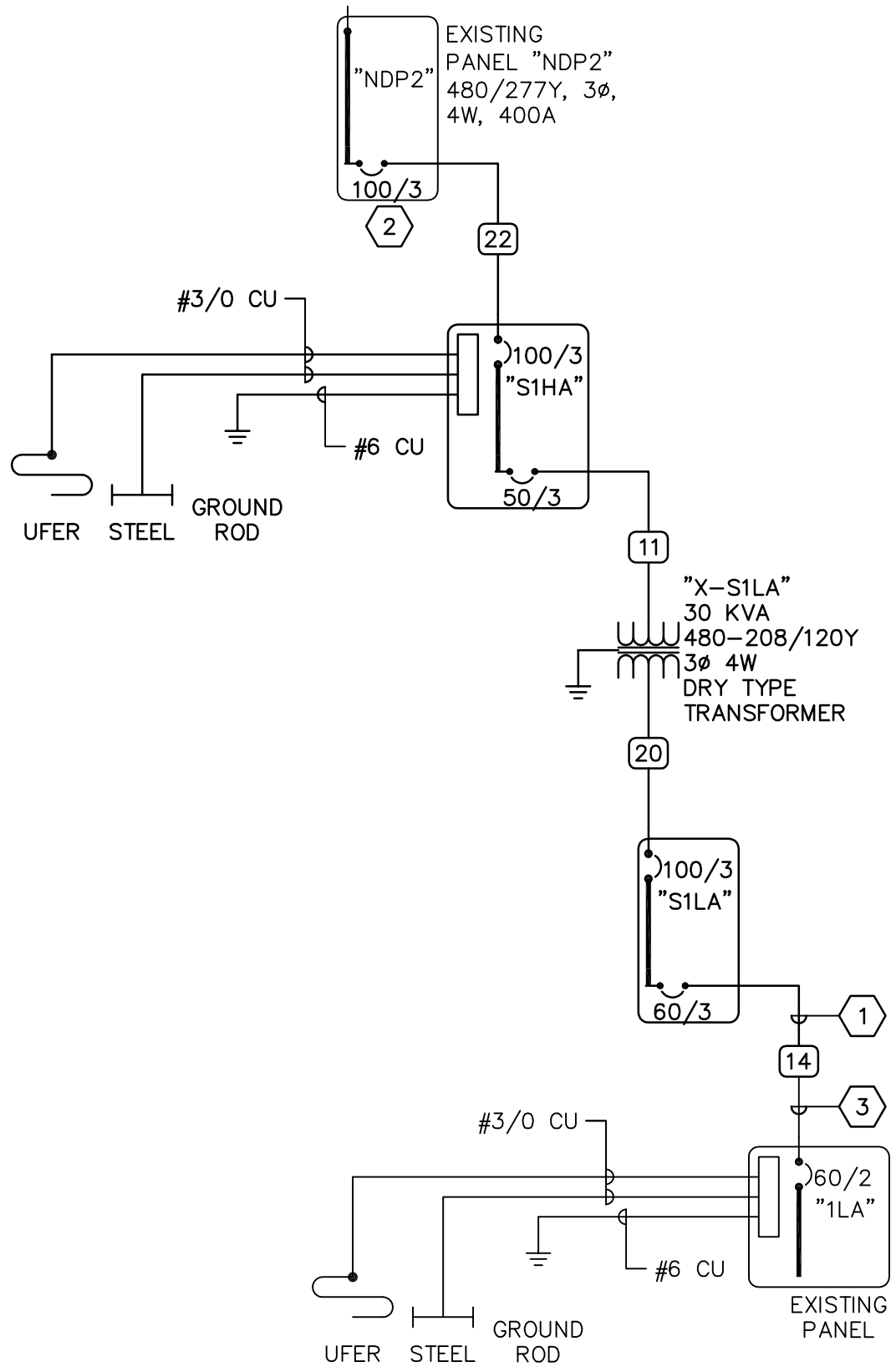
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	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
A	LIGHTING FIXTURE SCHEDULE																		
B	NOTE TO BIDDERS: COMPLY WITH SECTIONS 16511, 16521, AND 16570 OF THE SPECIFICATIONS. REFER TO SPECIFICATIONS FOR IMPORTANT TECHNICAL REQUIREMENTS FOR LIGHTING FIXTURES, BALLASTS, AND LAMPS. THE CATALOG NUMBERS LISTED BELOW HAVE BEEN CAREFULLY PREPARED TO ASSIST BIDDERS IN SELECTING PRODUCTS TO ACHIEVE THE DESIGN CONCEPT, HOWEVER, PRIOR TO BIDDING, EACH MANUFACTURER SHALL COMPARE THE CATALOG NUMBERS SHOWN WITH THE DESCRIPTION AND REQUIREMENTS ON THE DRAWINGS, AND SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY DISCREPANCIES. SPECIFICALLY INCLUDED IN THIS EVALUATION SHALL BE THE VERIFYING OF PROPER MOUNTING KITS OR ACCESSORIES TO FACILITATE INSTALLATION AS SHOWN AT EACH LOCATION ON THE DRAWINGS. NO ALLOWANCE OR REDRESS WILL BE ALLOWED FOR DISCREPANCIES THAT WERE NOT REPORTED TO THE ARCHITECT/ENGINEER IN TIME FOR CORRECTION OR CLARIFICATION BEFORE THE BID. THE REPORTING OF ANY AMBIGUITY IS THE RESPONSIBILITY OF THE BIDDER. PROVIDE UNIT PRICES AND FIXTURE BRAND SELECTED FOR ADD/DELETE CHANGES FOR EACH FIXTURE TYPES SHOWN WITHIN 48 BUSINESS HOURS OF THE BID DATE. FAILURE TO COMPLY WITH THIS REQUIREMENT MAY DISQUALIFY THE PRODUCTS AND EMPOWER THE ENGINEER TO DETERMINE FAIR VALUE FOR FIXTURE AND INSTALLATION CHANGES, WITHOUT FURTHER INPUT FROM THE CONTRACTOR OR INSTALLER. SUBMITTAL PACKAGE SHALL INCLUDE LAMP MANUFACTURER AND CATALOG NUMBER ON EACH FIXTURE SHEET. ON ALL PENDANT MOUNTED FIXTURES, PROVIDE A SECOND SET OF PENDANTS, OF A DIFFERENT LENGTH, AS DIRECTED BY THE ARCHITECT/ENGINEER, PROVIDED AND INSTALLED AT NO ADDITIONAL CHARGE. ALL FIXTURES SHALL BE APPROVED BY UL OR ANOTHER ACCEPTABLE TESTING LAB FOR THE PURPOSE INTENDED AND WITH THE LAMP AND BALLAST PROPOSED. CONTRACTOR ALLOWANCE PRICES ARE ACCURATE WHEN THIS JOB WAS SPECIFIED, CONTRACTOR AND ELECTRICAL DISTRIBUTOR SHALL VERIFY THIS ALLOWANCE AND REPORT ANY PROBLEMS TO THE ENGINEER BEFORE THE BID. ALLOWANCE PRICE MAY OR MAY NOT INCLUDE LAMP(S) OR FREIGHT AS NOTED, AND DO NOT INCLUDE ANY TAXES. UNIVERSAL VOLTAGE (120/277) BALLASTS REQUIRED UNLESS NOTED OTHERWISE. DIMENSION SEQUENCE = (LENGTH X WIDTH X DEPTH) IN INCHES.																		
C	FIXTURE CHARACTERISTICS BODY / AIR / MOUNTING / DOOR SYMBOL MARK LENS/LOUVER/REFLECTOR/OTHER LAMP WATTS VOLTS MANUFACTURER CATALOG NUMBER NOTES																		
D	OC WALL PACK: ADJUSTABLE CUT OFF; FULL PERIMETER GASKETING: WET LOCATION; STAINLESS STEEL HINGES AND LATCHES; PROJECTING LENS; HPF BALLAST; SEE ELEVATION FOR MOUNTING HEIGHT, COLOR AS SPECIFIED BY ARCHITECT. OC-26 100 PSMH, RECESSED J BOX. 100PSMH 130W 277/120V MCPHILBEN 101-WT-100MH-XX LSI GBW6-3-100MH-F-MT-XX-NO LITHONIA WST 100M WT TB LUMARK MHP-T-100-MT-XX SA GENERAL PURPOSE INDUSTRIAL: WHITE ENAMEL, APERTURED REFLECTOR; PROGRAM START ELECTRONIC BALLASTS; T8 LAMPS; ONE BALLAST PER FIXTURE WHERE POSSIBLE; UNLESS TWO LEVEL SWITCHING IS SHOWN ON THE PLANS; STEM MOUNTED WITH TONG HANGERS. SA-1 4', 2-LAMP. 2-F32T8 65W 277/120V LITHONIA EJA232-MVOLT-TUBRHP-THUN LIGHTOLIER KWA232-U-SOP METALUX IA-232-UNV-PROGRAM START HUBBELL IG142R-PP10-UPS COLUMBIA CSR4-232U-EB8120/277 PROG-CSTH DAYBRITE IA232-UNV-1/2-EB-SPEC																		
E	PANEL "S1HA"																		
F	VOLTS/PHASE/WIRE: 277/480 V, 3 PH 4 WIRE PANEL SIZE & TYPE: 22" W x 6" D, BOLT-ON MAIN SIZE & TYPE: 100 AMPERE MAIN CB LOCATION: CABINET: NOTES: ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR, INSULATED GROUND BAR, SUBFEED LUGS CTK NO AMP POLE LGT CO PWR DESCRIPTION LCL PHASE LOAD LCL kVA A B C kVA LOAD (kVA) LGT CO PWR OCP AMP POLE CTK NO 1 20 1 0.4 EXTERIOR LIGHTING 0.5 0.4 0.0 20 1 2 3 20 1 0.3 STORAGE BUILDING LTG 0.4 0.3 0.0 20 1 4 5 20 1 SPARE 0.0 0.0 0.0 20 1 6 7 20 1 SPARE 0.0 0.0 0.0 20 1 8 9 20 1 SPARE 0.0 0.0 0.0 20 1 10 11 20 1 SPARE 0.0 0.0 0.0 20 1 12 13 20 1 SPARE 0.0 0.0 0.0 20 1 14 15 20 1 SPARE 0.0 0.0 0.0 20 1 16 17 20 1 SPARE 0.0 0.0 0.0 20 1 18 19 - 1 BLANK 0.0 0.0 0.0 20 1 20 21 - 1 BLANK 0.0 0.0 0.0 20 1 22 23 - 1 BLANK 0.0 0.0 0.0 20 1 24 25 - 1 BLANK 0.0 1.2 1.2 50 3 26 27 - 1 BLANK 0.0 2.1 2.2 0.5 1.6 0.0 - - 38 29 - 1 BLANK 0.0 0.0 1.6 0.0 1.6 0.0 - - 20 TOTALS: CONNECTED KVA PER PHASE 2 2 2 CONNECTED TOTAL KVA 6 CONNECTED AMPS PER PHASE 6 9 6 CONNECTED AVERAGE AMPS PER PHASE 7 NEC DIVERSIFIED LOAD CALCULATIONS LIGHTING 1kVA @125% = 2 kVA ALL OTHER LOADS @100% = 0 kVA DIVERSIFIED TOTAL KVA = 6 RECEPTACLES 4kVA @100% = 4 kVA 25% OF LARGEST MOTOR = 0 kVA AVERAGE AMPS PER PHASE = 7 REMAINDER 0kVA @ 50% = 0 kVA																		
G	PANEL "S1LA"																		
H	VOLTS/PHASE/WIRE: 120/208 V, 3 PH 4 WIRE PANEL SIZE & TYPE: 22" W x 6" D, BOLT-ON MAIN SIZE & TYPE: 100 AMPERE MAIN CB LOCATION: CABINET: NOTES: ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR, INSULATED GROUND BAR, SUBFEED LUGS CTK NO AMP POLE LGT CO PWR DESCRIPTION LCL PHASE LOAD LCL kVA A B C kVA LOAD (kVA) LGT CO PWR OCP AMP POLE CTK NO 1 20 1 0.6 STORAGE BLDG COS 0.6 0.6 0.0 20 1 2 3 20 1 0.6 STORAGE BLDG COS 0.6 0.6 0.0 20 1 4 5 20 1 0.6 STORAGE BLDG COS 0.6 0.6 0.0 20 1 6 7 20 1 0.6 STORAGE BLDG COS 0.6 0.6 0.0 20 1 8 9 20 1 SPARE 0.0 0.0 0.0 20 1 10 11 20 1 SPARE 0.0 0.0 0.0 20 1 12 13 20 1 SPARE 0.0 0.0 0.0 20 1 14 15 20 1 SPARE 0.0 0.0 0.0 20 1 16 17 20 1 SPARE 0.0 0.0 0.0 20 1 18 19 20 1 SPARE 0.0 0.0 0.0 20 1 20 21 20 1 SPARE 0.0 0.0 0.0 20 1 22 23 20 1 SPARE 0.0 0.0 0.0 20 1 24 25 20 1 SPARE 0.0 0.0 0.0 20 1 26 27 20 1 SPARE 0.0 0.0 0.0 20 1 28 29 20 1 SPARE 0.0 1.5 1.6 PANEL 1LA 0.5 1.0 0.0 60 2 38 TOTALS: CONNECTED KVA PER PHASE 1 2 2 CONNECTED TOTAL KVA 5 CONNECTED AMPS PER PHASE 10 18 13 CONNECTED AVERAGE AMPS PER PHASE 14 NEC DIVERSIFIED LOAD CALCULATIONS LIGHTING 1kVA @125% = 1 kVA ALL OTHER LOADS @100% = 0 kVA DIVERSIFIED TOTAL KVA = 5 RECEPTACLES 4kVA @100% = 4 kVA 25% OF LARGEST MOTOR = 0 kVA AVERAGE AMPS PER PHASE = 14 REMAINDER 0kVA @ 50% = 0 kVA																		
I	PANEL "S1LA"																		
J	VOLTS/PHASE/WIRE: 120/208 V, 3 PH 4 WIRE PANEL SIZE & TYPE: 22" W x 6" D, BOLT-ON MAIN SIZE & TYPE: 100 AMPERE MAIN CB LOCATION: CABINET: NOTES: ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR, INSULATED GROUND BAR, SUBFEED LUGS CTK NO AMP POLE LGT CO PWR DESCRIPTION LCL PHASE LOAD LCL kVA A B C kVA LOAD (kVA) LGT CO PWR OCP AMP POLE CTK NO 1 20 1 0.6 STORAGE BLDG COS 0.6 0.6 0.0 20 1 2 3 20 1 0.6 STORAGE BLDG COS 0.6 0.6 0.0 20 1 4 5 20 1 0.6 STORAGE BLDG COS 0.6 0.6 0.0 20 1 6 7 20 1 0.6 STORAGE BLDG COS 0.6 0.6 0.0 20 1 8 9 20 1 SPARE 0.0 0.0 0.0 20 1 10 11 20 1 SPARE 0.0 0.0 0.0 20 1 12 13 20 1 SPARE 0.0 0.0 0.0 20 1 14 15 20 1 SPARE 0.0 0.0 0.0 20 1 16 17 20 1 SPARE 0.0 0.0 0.0 20 1 18 19 20 1 SPARE 0.0 0.0 0.0 20 1 20 21 20 1 SPARE 0.0 0.0 0.0 20 1 22 23 20 1 SPARE 0.0 0.0 0.0 20 1 24 25 20 1 SPARE 0.0 0.0 0.0 20 1 26 27 20 1 SPARE 0.0 0.0 0.0 20 1 28 29 20 1 SPARE 0.0 1.5 1.6 PANEL 1LA 0.5 1.0 0.0 60 2 38 TOTALS: CONNECTED KVA PER PHASE 1 2 2 CONNECTED TOTAL KVA 5 CONNECTED AMPS PER PHASE 10 18 13 CONNECTED AVERAGE AMPS PER PHASE 14 NEC DIVERSIFIED LOAD CALCULATIONS LIGHTING 1kVA @125% = 1 kVA ALL OTHER LOADS @100% = 0 kVA DIVERSIFIED TOTAL KVA = 5 RECEPTACLES 4kVA @100% = 4 kVA 25% OF LARGEST MOTOR = 0 kVA AVERAGE AMPS PER PHASE = 14 REMAINDER 0kVA @ 50% = 0 kVA																		
K	PANEL "S1LA"																		
L	VOLTS/PHASE/WIRE: 120/208 V, 3 PH 4 WIRE PANEL SIZE & TYPE: 22" W x 6" D, BOLT-ON MAIN SIZE & TYPE: 100 AMPERE MAIN CB LOCATION: CABINET: NOTES: ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR, INSULATED GROUND BAR, SUBFEED LUGS CTK NO AMP POLE LGT CO PWR DESCRIPTION LCL PHASE LOAD LCL kVA A B C kVA LOAD (kVA) LGT CO PWR OCP AMP POLE CTK NO 1 20 1 0.6 STORAGE BLDG COS 0.6 0.6 0.0 20 1 2 3 20 1 0.6 STORAGE BLDG COS 0.6 0.6 0.0 20 1 4 5 20 1 0.6 STORAGE BLDG COS 0.6 0.6 0.0 20 1 6 7 20 1 0.6 STORAGE BLDG COS 0.6 0.6 0.0 20 1 8 9 20 1 SPARE 0.0 0.0 0.0 20 1 10 11 20 1 SPARE 0.0 0.0 0.0 20 1 12 13 20 1 SPARE 0.0 0.0 0.0 20 1 14 15 20 1 SPARE 0.0 0.0 0.0 20 1 16 17 20 1 SPARE 0.0 0.0 0.0 20 1 18 19 20 1 SPARE 0.0 0.0 0.0 20 1 20 21 20 1 SPARE 0.0 0.0 0.0 20 1 22 23 20 1 SPARE 0.0 0.0 0.0 20 1 24 25 20 1 SPARE 0.0 0.0 0.0 20 1 26 27 20 1 SPARE 0.0 0.0 0.0 20 1 28 29 20 1 SPARE 0.0 1.5 1.6 PANEL 1LA 0.5 1.0 0.0 60 2 38 TOTALS: CONNECTED KVA PER PHASE 1 2 2 CONNECTED TOTAL KVA 5 CONNECTED AMPS PER PHASE 10 18 13 CONNECTED AVERAGE AMPS PER PHASE 14 NEC DIVERSIFIED LOAD CALCULATIONS LIGHTING 1kVA @125% = 1 kVA ALL OTHER LOADS @100% = 0 kVA DIVERSIFIED TOTAL KVA = 5 RECEPTACLES 4kVA @100% = 4 kVA 25% OF LARGEST MOTOR = 0 kVA AVERAGE AMPS PER PHASE = 14 REMAINDER 0kVA @ 50% = 0 kVA																		

STANDARD WIRING DEVICE SCHEDULE		
Note to Bidders: Comply with Section 262726 of the specifications. The catalog numbers listed below have been carefully prepared with the assistance of the manufacturer's representatives with the objective of assisting the bidders in determining the quality and ratings of the wiring device specified; however, the catalog numbers may not be complete or accurate. In addition, the color of the wiring device is not intended to be determined by the catalog numbers listed below, but shall be selected by the Architect as indicated in the specification. Each manufacturer prior to bidding shall compare catalog numbers shown with the description and shall notify the Architect/Engineer of any discrepancies.		
NEMA	DESCRIPTION	CATALOG NUMBERS
NEMA 5-20R	20A, 125V 2 pole 3 wire duplex grounding receptacles. Nylon or Lexan Faces. Back and side wired. Comply with FS W-C-596 and UL 498.	Bryant 5352 Hubbell CR5352 Leviton 5352 P&S 5352
NEMA 5-20R GFCI	20A, 125V 2 pole 3 wire duplex feed thru GFCI receptacles with indicator light. Nylon or Lexan decorator faces. Back and side wired. Internal components shall comply with FS W-C-596, where applicable. Comply with UL 498 and UL 493.	Bryant GFR53FT Hubbell GF5352 Leviton 6898 P&S 2091 S
NEMA 5-20R Waterproof (Weatherproof in use)	20A, 125V 2 pole 3 wire duplex grounding receptacles. Nylon or Lexan Faces. Back and side wired. Comply with FS W-C-596 and UL 498. Fully gasketed weatherproof while in use enclosure.	Hubbell CR5352/5051-0 Leviton 1221 P & S 521 Bryant 4901
20A Single Pole	20A single pole 125V-277V standard toggle switch labeled as complying UL standard 20 and with Federal Specification W-S-896. Provide Nylon or Lexan face, back and side wired. Rated 1 HP 120V.	Hubbell CS1221 Leviton 1221 P & S 521 Bryant 4901

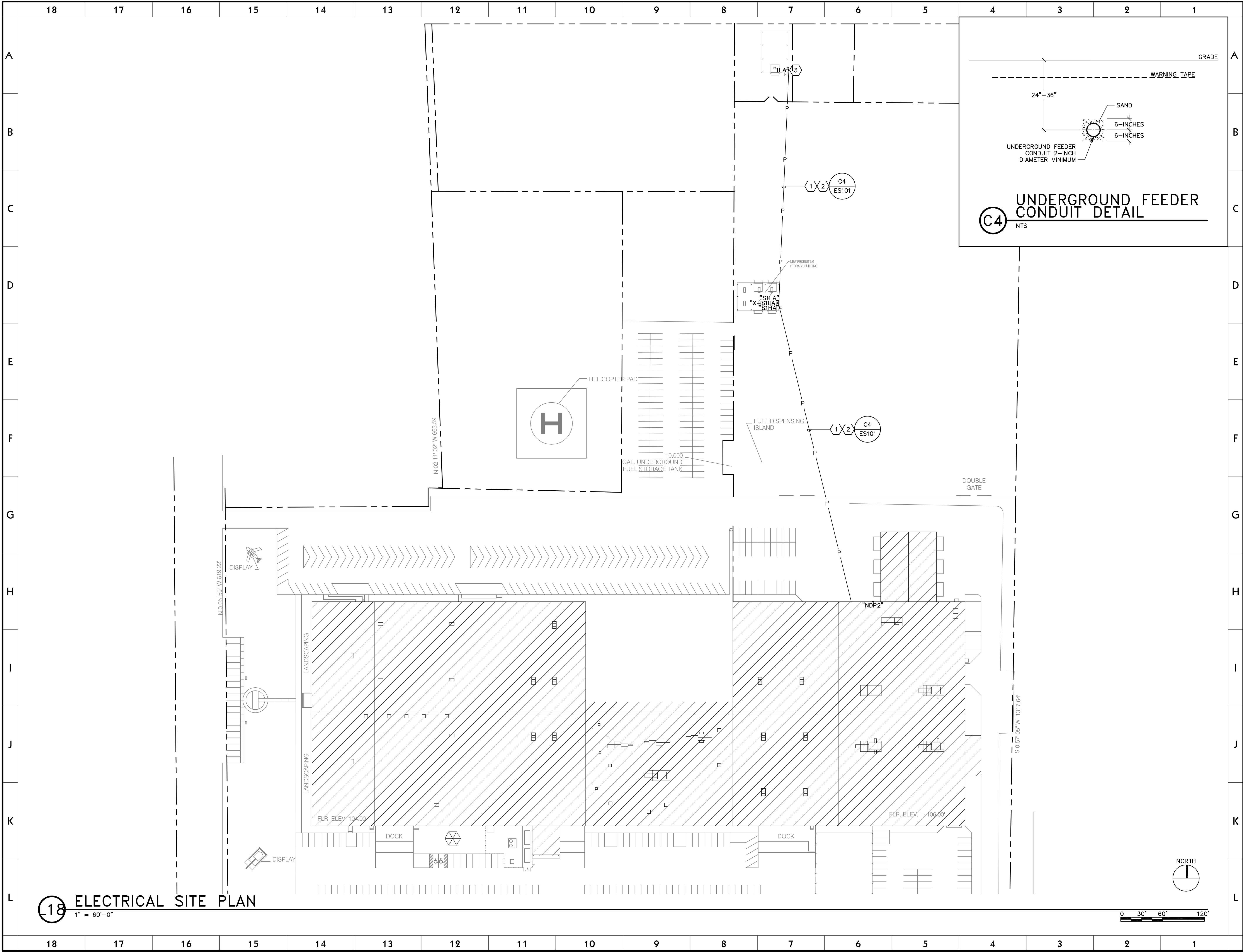
PANEL "1LA" (EXISTING STORAGE BUILDING)																			
VOLTS/PHASE/WIRE: 120/208 V, 1 PH 3 WIRE					PANEL SIZE & TYPE: 22" W x 6" D, BOLT-ON				MAIN SIZE & TYPE: 60 AMPERE MAIN BKR				LOCATION:			CABINET: SURFACE		NOTES: <div>4</div>	
ACCESSORIES: PANEL DIRECTORY, IDENTIFICATION, GROUNDING BAR, SUBFEED LUGS, SERVICE ENTRANCE RATED																			
CKT NO	OCP		LOAD (kVA)			DESCRIPTION	LCL kVA	PHASE		LOAD	LCL kVA	DESCRIPTION	LOAD (kVA)			OCP	CKT NO		
	AMP	POLE	LGT	CO	PWR			A	B				LGT	CO	PWR			AMP	POLE
1	40	2				GENERATOR FEED	0.0	0.8		0.8	RECEPTACLES		0.8		20	1	2		
3	-	-				----	0.0			0.8	RECEPTACLES		0.8		20	1	4		
5	20	1		0.2		EAST SIDE EXTER CO	0.2	0.7		0.6	LIGHTING	0.5			20	1	6		
7	20	1		0.2		WEST SIDE EXTER CO	0.2		0.2	0.0	SPARE				20	1	8		
9	20	1				SPARE	0.0	0.0		0.0	SPARE				20	1	10		
11	20	1				SPARE	0.0		0.0	0.0	SPARE				20	1	12		
13	20	1				SPARE	0.0	0.0		0.0	SPARE				20	1	14		
15	20	1				SPARE	0.0		0.0	0.0	SPARE			20	1	16			
TOTALS:							kVA PER PHASE		2				CONNECTED TOTAL KVA		2.5				
							AMPS PER PHASE		13		8		CONNECTED AVERAGE AMPS PER PHASE		12				
NEC DIVERSIFIED LOAD CALCULATIONS																			
LIGHTING 1kVA @125% =							1 kVA			ALL OTHER LOADS @100% =			0 kVA			DIVERSIFIED TOTAL kVA = 3			
RECEPTACLES 2kVA @100% =							2 kVA			25% OF LARGEST MOTOR =			0 kVA			AVERAGE AMPS PER PHASE = 13			
REMAINDER 0kVA @ 50% =							0 kVA												



10 ONE-LINE DIAGRAM
NO SCALE

CONDUCTOR AND CONDUIT SCHEDULE									
SCHEDULE NUMBER **				(E.G.) 5 IG SUBSCRIPT (NOTE 5)					
SYM	AMP	CONDUIT SIZE	CONDUCTOR(NOTE 1)		IG	SE	NOTES		
			QTY	SIZE	G				
1	20	.75	2	12	12	12	8	2	
2	20	.75	3	12	12	12	8	2,3	
3	20	.75	4	12	12	12	8	2,3	
4	30	.75	2	10	10	10	8	2	
5	30	.75	3	10	10	10	8	2	
6	30	.75	4	10	10	10	8	2	
7	40	1	2	8	10	8	6	2	
8	40	1	3	8	10	8	6	2	
9	40	1	4	8	10	8	6	2	
10	55	1	2	6	10	8	4	2	
11	55	1	3	6	10	8	4	2	
12	55	1.25	4	6	10	8	4	2	
13	70	1	2	4	8	4	2	2	
14	70	1.25	3	4	8	4	2	2	
15	70	1.25	4	4	8	4	2	2	
16	85	1.25	2	3	8	3	2	2	
17	85	1.25	3	3	8	3	2	2	
18	85	1.25	4	3	8	3	2	2	
19	95	1.25	3	2	8	2	2	2	
20	95	1.50	4	2	8	2	2	2	
21	130	1.50	3	1	6	2	2	2	
22	130	1.50	4	1	6	2	2	2	
23	150	2	3	1/0	6	2	1/0	2	
24	150	2	4	1/0	6	2	1/0	2	
25	175	2	3	2/0	6	2	2/0	2	
26	175	2	4	2/0	6	2	2/0	2	
27	200	2	3	3/0	6	2	2/0	2	
28	200	2.50	4	3/0	6	2	2/0	2	
29	230	2.50	3	4/0	4	2	2/0	2	
30	230	2.50	4	4/0	4	2	2/0	2	
31	255	2.50	3	250	4	1	2/0	2	
32	255	2.50	4	250	4	1	2/0	2	
33	310	3	3	350	3	1/0	3/0	2	
34	310	3	4	350	3	1/0	3/0	2	
35	380	3.50	3	500	3	3/0	3/0	2	
36	380	4	4	500	3	3/0	3/0	2	
37	400	2 EA 2	3	3/0	3	3/0	3/0	2	
38	400	2 EA 2.50	4	3/0	3	3/0	3/0	2	
39	510	2 EA 2.50	3	250	1	4/0	3/0	2	
40	510	2 EA 3	4	250	1	4/0	3/0	2	
41	620	2 EA 3	3	350	1/0	4/0	3/0	2,4	
42	620	2 EA 3	4	350	1/0	4/0	3/0	2,4	
43	760	2 EA 3.50	3	500	1/0	4/0	3/0	2,4	
44	760	2 EA 4	4	500	1/0	4/0	3/0	2,4	
45	855	3 EA 3	3	300	2/0	4/0	3/0	2,4	
46	855	3 EA 3	4	300	2/0	4/0	3/0	2,4	
47	1000	3 EA 3.50	3	400	2/0	4/0	3/0	4	
48	1000	3 EA 3.50	4	400	2/0	4/0	3/0	4	
49	1140	3 EA 4	3	500	3/0	4/0	3/0	4	
50	1140	3 EA 4	4	500	3/0	4/0	3/0	4	
51	1240	4 EA 3	3	350	3/0	4/0	3/0	4	
52	1240	4 EA 3	4	350	3/0	4/0	3/0	4	
53	1675	5 EA 3.50	4	400	4/0	4/0	4/0	4	
54	2010	6 EA 3.50	4	400	250	250	250	4	
55	2660	7 EA 4	4	500	350	350	350	4	
56	3040	8 EA 4	4	500	500	500	500	4	
57	4180	11 EA 4	4	500	500	500	500	4	
58		5 EA 4						6	
59		5						6	
60		10 EA 4						6	
CONDUCTOR AND CONDUIT SCHEDULE NOTES									
1. CONDUCTORS SHOWN ARE SHOWN FOR EACH CONDUIT WITH MODIFICATIONS AS NOTED IN NOTE 5. ALL CONDUCTORS SHOWN ARE THWN UNLESS OTHERWISE NOTED.									
2. PROVIDE EQUIPMENT GROUND CONDUCTORS PER TABLE 250-122. WHEN CIRCUIT BREAKERS ARE SIZED GREATER THAN AMPERE RATING SHOWN IN TABLE.									
3. PROVIDE #10 NEUTRALS FOR MULTIWIRE BRANCH CIRCUITS SERVING COMPUTERS.									
4. GROUND (G) CONDUCTOR MAY BE DELETED ON SERVICE ENTRANCE CONDUCTORS.									
5. WHEN SYMBOL SUBSCRIPT INDICATES "IG", INCLUDE "IG" OR INSULATED GROUND CONDUCTOR SCHEDULED ALONG WITH GROUND OR EQUIPMENT GROUND CONDUCTOR. WHEN SYMBOL SUBSCRIPT INDICATES "SE" SUBSTITUTE "SE" CONDUCTOR FOR "G" CONDUCTOR SHOWN WHICH IS SIZED FOR THE GROUNDING OF THE SECONDARY OF THE SEPARATELY DERIVED SYSTEMS.									
6. RACEWAY ONLY. CONDUCTORS PROVIDED BY UTILITY.									

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18 ELECTRICAL SITE PLAN
1" = 60'-0"

Harris & Associates
265 East 100 South Suite 350
Salt Lake City, Utah 84111-1604
Ph (801) 521-8564 Fax (801) 355-2938

CONSULTANT INFORMATION

175 South Main Street, Suite 300
Salt Lake City, Utah 84111
801-328-5151
800-678-7077
FAX 801-328-5155
www.spectrum-engineers.com

SPECTRUM ENGINEERS

SHEET KEYNOTES

1. PROVIDE NEW UNDERGROUND FEEDER. SEE ONE-LINE DIAGRAM. COORDINATE ROUTING OF CONDUITS TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES.
2. CONTRACTOR SHALL IDENTIFY EXISTING UNDERGROUND UTILITIES WITH BLUE STAKES PRIOR TO DIGGING AND SHALL HAND DIG WITHIN 3- FEET OF EXISTING UNDERGROUND UTILITIES.
3. EXISTING CONDUIT IS STUBBED 2- FEET OUTSIDE BUILDING. INTERCEPT EXISTING CONDUIT STUBBED OUTSIDE THE BUILDING TO COMPLETE THE FEEDER AS REQUIRED.

Utah National Guard
RECRUITER STORAGE BUILDING
UTAH NATIONAL GUARD
DRAPER, UTAH

Electrical Site Plan

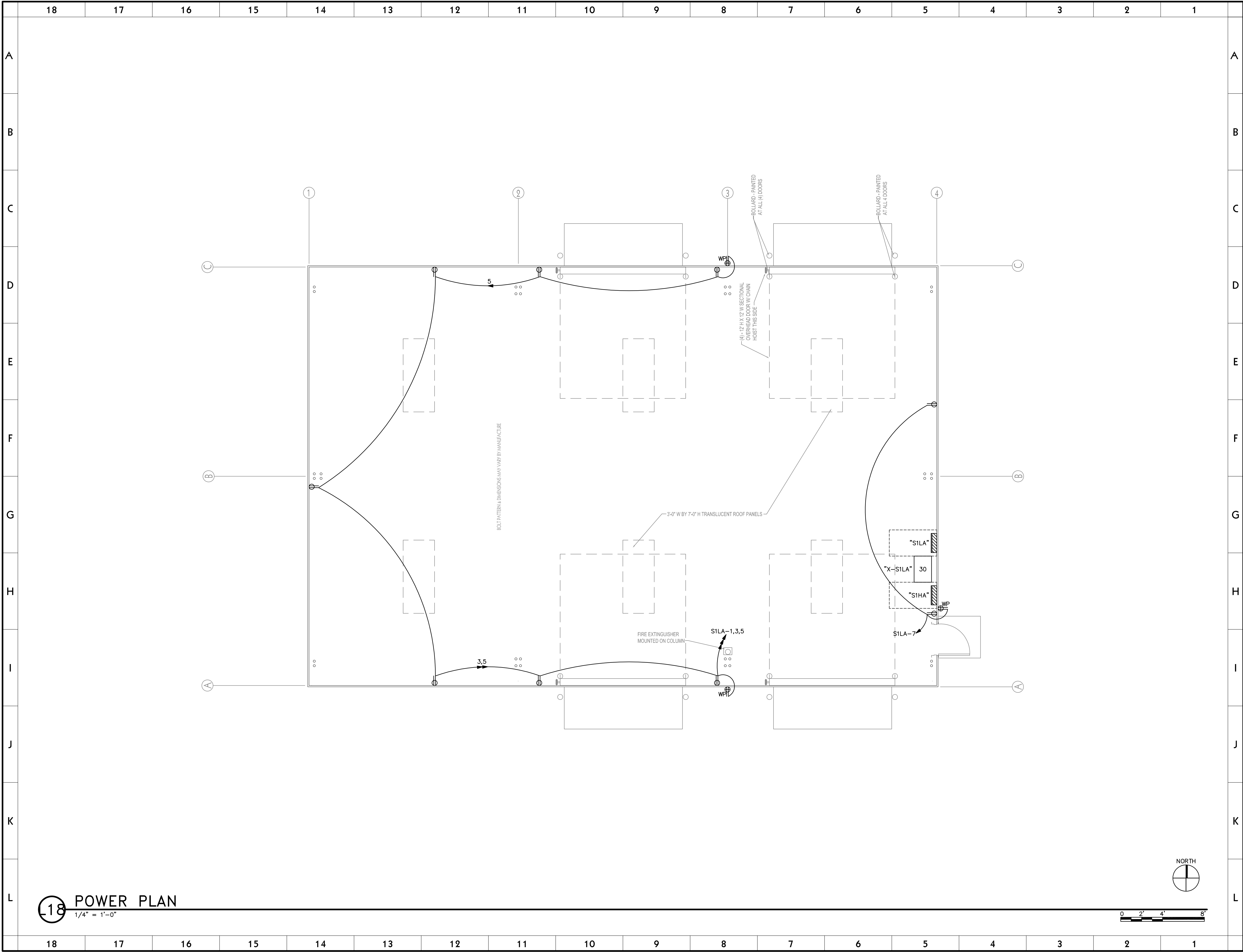
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PROJECT NO.	08275480	DRAWING NO.	
DATE	AUG 29, 2008		

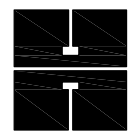
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Utah National Guard - RECRUITER STORAGE BUILDING - DRAPER, UTAH

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18 POWER PLAN
1/4" = 1'-0"


**Harris & Associates**SM

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ENGINEERS

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**Utah National Guard**

RECRUITER STORAGE BUILDING
UTAH NATIONAL GUARD
DRAPER, UTAH

SHEET TITLE

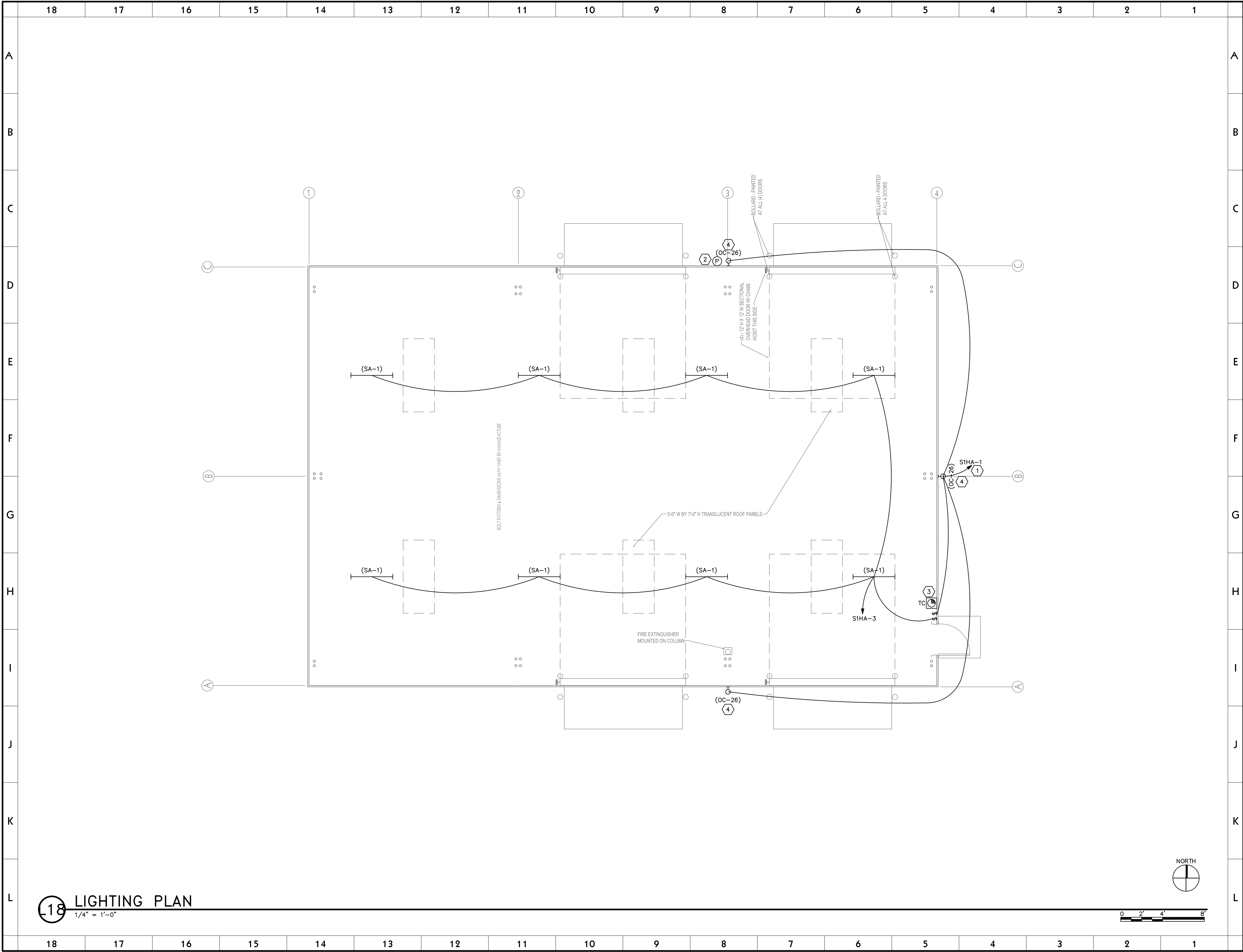
Power Plan

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DATE	AUG 29, 2008		

Utah National Guard - RECRUITER STORAGE BUILDING - DRAPER, UTAH

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18 LIGHTING PLAN

1/4" = 1'-0"

SHEET KEYNOTES

1. CONNECT THROUGH PHOTOCELL AND TIMECLOCK, PHOTOCELL ENABLE, TIMECLOCK OFF.
2. MOUNT PHOTOCELL ON NORTH SIDE OF THE BUILDING. FACE NORTH.
3. PROVIDE DIGITAL TIMECLOCK WITH INTEGRAL RELAYS AND PHOTOCELL INPUT TO OVERRIDE LIGHTS OFF.
4. MOUNT LIGHT FIXTURE DIRECTLY TO STRUCTURE. COORDINATE WITH LOCATION OF BEAMS.

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Lighting Plan			
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PSS		DLA	
PROJECT NO.		DRAWING NO.	
08275480		EL101	
DATE			
AUG 29, 2008			